

Sequence Listing

<110> SciI Proteins GmbH  
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Rudolph, Rainer

<120> DESIGN OF BETA-SHEET PROTEINS WITH SPECIFIC BINDING PROPERTIES

<130> P12389 / 1406-37

<140> US 10/030,605

<141> 2002-01-09

<150> PCT/EP00/06698

<151> 2000-07-13

<160> 25

<170> PatentIn version 3.0

<210> 1

<211> 45

<212> DNA

<213> Artificial

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<223> GCLIE1B primer designed according to mutant bovine gamma-II crystalline DNA sequence. See Figure 1.

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<223> GCLIB7P primer designed according to mutant bovine gamma-II
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 Pro Tyr Phe Ser Arg Cys Asn Ser Ile Arg Val Leu Ser Gly Cys Trp  
 35 40 45  
 Met Leu Tyr Glu Arg Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg  
 50 55 60  
 Arg Gly Asp Tyr Pro Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser  
 65 70 75 80  
 Ile Arg Ser Cys Arg Leu Ile Pro Gln His Thr Gly Thr Phe Arg Met  
 85 90 95  
 Arg Ile Tyr Glu Arg Asp Asp Phe Arg Gly Gln Met Ser Glu Ile Thr  
 100 105 110  
 Asp Asp Cys Pro Ser Leu Gln Asp Arg Phe His Leu Thr Glu Val His  
 115 120 125  
 Ser Leu Asn Val Leu Glu Gly Ser Trp Val Leu Tyr Glu Met Pro Ser  
 130 135 140  
 Tyr Arg Gly Arg Gln Tyr Leu Leu Arg Pro Gly Glu Tyr Arg Arg Tyr  
 145 150 155 160  
 Leu Asp Trp Gly Ala Met Asn Ala Lys Val Gly Ser Leu Arg Arg Val  
 165 170 175  
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 Leu Glu Pro Arg Ala Ala  
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 Pro Tyr Phe Ser Arg Cys Asn Ser Ile Arg Val Asp Ser Gly Cys Trp  
 35 40 45

Met Leu Tyr Glu Arg Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg  
 50 55 60

Arg Gly Asp Tyr Pro Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser  
 65 70 75 80

Ile Arg Ser Cys Arg Leu Ile Pro Gln His Thr Gly Thr Phe Arg Met  
 85 90 95

Arg Ile Tyr Glu Arg Asp Asp Phe Arg Gly Gln Met Ser Glu Ile Thr  
 100 105 110

Asp Asp Cys Pro Ser Leu Gln Asp Arg Phe His Leu Thr Glu Val His  
 115 120 125

Ser Leu Asn Val Leu Glu Gly Ser Trp Val Leu Tyr Glu Met Pro Ser  
 130 135 140

Tyr Arg Gly Arg Gln Tyr Leu Leu Arg Pro Gly Glu Tyr Arg Arg Tyr  
 145 150 155 160

Leu Asp Trp Gly Ala Met Asn Ala Lys Val Gly Ser Leu Arg Arg Val  
 165 170 175

Met Asp Phe Tyr Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro Asp Pro  
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Leu Glu Pro Arg Ala Ala  
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Cys Asn Ser Ile Arg Val Leu Ser Gly Cys Trp Met Leu Tyr Glu Arg  
 35 40 45

Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg Arg Gly Asp Tyr Pro  
 50 55 60

Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser Ile Arg Ser Cys Arg  
 65 70 75 80

Leu Ile Pro Gln His Thr Gly Thr Phe Arg Met Arg Ile Tyr Glu Arg  
 85 90 95

Asp Asp Phe Arg Gly Gln Met Ser Glu Ile Thr Asp Asp Cys Pro Ser  
 100 105 110

Leu Gln Asp Arg Phe His Leu Thr Glu Val His Ser Leu Asn Val Leu  
 115 120 125

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Glu Gly Ser Trp Val Leu Tyr Glu Met Pro Ser Tyr Arg Gly Arg Gln  
 130 135 140

Tyr Leu Leu Arg Pro Gly Glu Tyr Arg Arg Tyr Leu Asp Trp Gly Ala  
 145 150 155 160

Met Asn Ala Lys Val Gly Ser Leu Arg Arg Val Met Asp Phe Tyr Ser  
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Asp Pro Asn Ser Ser Ser Val Asp Lys Leu Ala Ala Ala Leu Glu His  
 180 185 190

His His His His His  
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 20 25 30

Cys Asn Ser Ile Arg Val Asp Ser Gly Cys Trp Met Leu Tyr Glu Arg  
 35 40 45

Pro Asn Tyr Gln Gly His Gln Tyr Phe Leu Arg Arg Gly Asp Tyr Pro  
 50 55 60

Asp Tyr Gln Gln Trp Met Gly Phe Asn Asp Ser Ile Arg Ser Cys Arg  
 65 70 75 80

Leu Ile Pro Gln His Thr Gly Thr Phe Arg Met Arg Ile Tyr Glu Arg  
 85 90 95

Asp Asp Phe Arg Gly Gln Met Ser Glu Ile Thr Asp Asp Cys Pro Ser  
 100 105 110

Leu Gln Asp Arg Phe His Leu Thr Glu Val His Ser Leu Asn Val Leu  
 115 120 125

Glu Gly Ser Trp Val Leu Tyr Glu Met Pro Ser Tyr Arg Gly Arg Gln  
 130 135 140

Tyr Leu Leu Arg Pro Gly Glu Tyr Arg Arg Tyr Leu Asp Trp Gly Ala  
 145 150 155 160

Met Asn Ala Lys Val Gly Ser Leu Arg Arg Val Met Asp Phe Tyr Ser  
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into vector pET-205. See Figure 9.
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